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**POWER OF ATTORNEY OR
AUTHORIZATION OF AGENT**

Application Number	
Filing Date	
First Named Inventor	Lance E. Brothers
Title	Methods, Well Cement ...
Art Unit	
Examiner Name	
Attorney Docket Number	HES 2001-IP-005521U1P1D2

I hereby appoint:

☐ Practitioners at Customer NumberPlace Customer
Number Bar Code
Label here

OR

☒ Practitioner(s) named below:

Name	Registration Number
see attached	

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number.Place Customer
Number Bar Code
Label here

OR

☐ Firm or
Individual Name

Address

Address

City

State

Zip

Country

Telephone

Fax

I am the:

☐ Applicant/Inventor.☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).**SIGNATURE of Applicant or Assignee of Record**Name Craig W. RoddySignature Craig W. RoddyDate 6-25-2003Telephone 580-251-3012

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Please type a plus sign (+) inside this box → ☐

PTO/SB/02C (3-97)

Approved for use through 8/30/98. OMB 0251-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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DECLARATION		REGISTERED PRACTITIONER INFORMATION (Supplemental Sheet)	
Name	Registration Number	Name	Registration Number
Halliburton Energy Services, Inc. Practitioners		McAfee & Taft Practitioners	
William E. Shull	29,438	C. Clark Dougherty, Jr.	24,208
Michael D. McCully	29,566	Clifford C. Dougherty, III	31,607
Mark A. Smith	30,220	E. Harrison Gilbert, III	29,156
William M. Imwalle	35,904	Neal R. Kennedy	31,383
Paul I. Herman	37,349	Michael J. LaBrie	39,507
Robert A. Kent	28,626	Anthony L. Rahhal	37,562
Craig W. Roddy	36,256	Jean L. Pinkston	45,014
John W. Wustenberg	35,415	William D. Hall	35,535
Scott F. Wendorf	48,029		

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20521. **DO NOT SEND FEES ON COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20521.**

Declaration — Registered Practitioner Information (Supplemental Sheet) (PTO/SB/02C)(1-1.4)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**



Declaration
Submitted
with Initial
Filing

OR



Declaration
Submitted after Initial
Filing (surcharge
(37 CFR 1.16 (e))
required)

Attorney Docket Number

HES 2001-IP-005521U1P1

First Name and Inventor

Lance E. Brothers et al.

COMPLETE IF KNOWN

Application Number

Filing Date

Art Unit

Examiner Name

As the below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Methods, Well Cement Compositions And Lightweight Additives Therefor

(Title of the Invention)

the specification of which



is attached hereto

OR



was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent ApplicationDirect all correspondence to: ☒Customer Number
or Bar Code LabelOR ☐

Correspondence address below

Name

Address

City

State

ZIP

Country

Telephone

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR :



A petition has been filed for this unsigned inventor

Given Name Lance E.
(first and middle [if any])

Family Name Brothers
or Surname

Inventor's
Signature

Lance E. Brothers

Date 20 MAR 02

Chickasha
Residence: City

OK
State

U.S.
Country

U.S.
Citizenship

Mailing Address 928 S. 8th

Chickasha
City

OK
State

73018
ZIP

U.S.
Country

NAME OF SECOND INVENTOR:



A petition has been filed for this unsigned inventor

Given Name Krista L.
(first and middle [if any])

Family Name Keener
or Surname

Inventor's
Signature

Krista L. Keener

Date 3-20-02

Duncan
Residence: City

OK
State

U.S.
Country

U.S.
Citizenship

Mailing Address 504 North 20th

Duncan
City

OK
State

73533
ZIP

U.S.
Country



Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

DECLARATION**ADDITIONAL INVENTOR(S)**
Supplemental Sheet
Page 1 of 1

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
James A. Given Name		Braden Family Name or Surname	
Inventor's Signature <i>James A. Braden</i>		Date <i>03/20/02</i>	
Duncan Residence: City	OK State	U.S. Country	U.S. Citizenship
1005 Timbercreek Drive Mailing Address			
Mailing Address			
Duncan City	OK State	73533 ZIP	U.S. Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Jan Pieter Given Name		Vijn Family Name or Surname	
Inventor's Signature		Date	
Leiderdorp Residence: City	State	The Netherlands Country	Dutch Citizenship
Vorstenhof 2, 2353VV Mailing Address			
Mailing Address			
Leiderdorp City	State	ZIP	The Netherlands Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Bach Given Name		Dao Family Name or Surname	
Inventor's Signature		Date	
Nieuw Vennep Residence: City	State	The Netherlands Country	Dutch Citizenship
Vossenstein 26, 2151KK Mailing Address			
Mailing Address			
Nieuw Vennep City	State	ZIP	The Netherlands Country

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input checked="" type="checkbox"/> Declaration Submitted with Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	HES 2001-IP-005521U1P1
	First Named Inventor	Lance E. Brothers et al.
	COMPLETE IF KNOWN	
	Application Number	
	Filing Date	
	Art Unit	
	Examiner Name	

As the below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Methods, Well Cement Compositions And Lightweight Additives Therefor

(Title of the Invention)

the specification of which

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT InternationalApplication Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

DECLARATION — Utility or Design Patent ApplicationDirect all correspondence to: ☒ Customer Number OR ☐ Correspondence address below

Name

Address

City

State

ZIP

Country

Telephone

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR : ☐ A petition has been filed for this unsigned inventorGiven Name Lance E.
(first and middle [if any])Family Name Brothers
or SurnameInventor's
Signature

Date

Chickasha
Residence: CityOK
StateU.S.
CountryU.S.
Citizenship

Mailing Address 928 S. 8th

Chickasha
CityOK
State73018
ZIPU.S.
CountryNAME OF SECOND INVENTOR: ☐ A petition has been filed for this unsigned inventorGiven Name Krista L.
(first and middle [if any])Family Name Keener
or SurnameInventor's
Signature

Date

Duncan
Residence: CityOK
StateU.S.
CountryU.S.
Citizenship

Mailing Address 504 North 20th

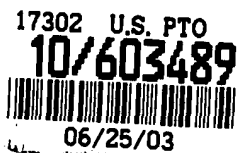
Duncan
CityOK
State73533
ZIPU.S.
Country☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

DECLARATION**ADDITIONAL INVENTOR(S)**
Supplemental Sheet
Page 1 of 1

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name James A.		Family Name or Surname Braden	
Inventor's Signature		Date	
Duncan	OK State	U.S. Country	U.S. Citizenship
Residence: City			
1005 Timbercreek Drive			
Mailing Address			
Mailing Address			
City Duncan	OK State	73533 ZIP	U.S. Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name Jan Pieter		Family Name or Surname Vijn	
Inventor's Signature		Date 14/03/02	
Leiderdorp	State	The Netherlands Country	Dutch Citizenship
Residence: City			
Vorstenhof 2, 2353VV			
Mailing Address			
Mailing Address			
City Leiderdorp	State	ZIP	The Netherlands Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name Bach		Family Name or Surname Dao	
Inventor's Signature		Date 14/03/02	
Nieuw Vennep	State	The Netherlands Country	Dutch Citizenship
Residence: City			
Vossenstein 26, 2151KK			
Mailing Address			
Mailing Address			
City Nieuw Vennep	State	ZIP	The Netherlands Country



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JUN 04 2002

MAY 29, 2002

PTAS

CRAIG W. RODDY Commissioner for Trademarks
Arlington, VA 22202-3513
www.uspto.gov

HALLIBURTON ENERGY SERVICES
CRAIG W. RODDY
2600 SOUTH SECOND STREET
DUNCAN, OK 73536-0440



102044358A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/21/2002

REEL/FRAME: 012740/0848
NUMBER OF PAGES: 15

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BROTHER, LANCE E.

DOC DATE: 03/20/2002

ASSIGNOR:

KEENER, KRISTA L.

DOC DATE: 03/20/2002

ASSIGNOR:

BRADEN, JAMES A.

DOC DATE: 03/20/2002

ASSIGNOR:

VIJN, JAN PIETER

DOC DATE: 03/14/2002

ASSIGNOR:

DAO, BACH

DOC DATE: 03/14/2002

ASSIGNEE:

HALLIBURTON ENERGY SERVICES, INC.
10200 BELLAIRE BOULEVARD
HOUSTON, TEXAS 77072

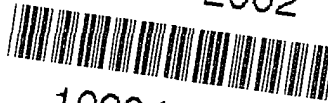
012740/0848 PAGE 2

SERIAL NUMBER: 10103449
PATENT NUMBER:

FILING DATE: 03/21/2002
ISSUE DATE:

JEFFREY OLSEN, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

04-04-2002



Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

 RECORDATION 102044358
PATENTS ONLY

 U.S. DEPARTMENT OF COMMERCE
 U.S. Patent and Trademark Office

Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

 Lance E. Brothers Jan Pieter Vijn
 Krista L. Keener Bach Dao
 James A. Braden

2. Name and address of receiving party(ies)

Name: Halliburton Energy Services, Inc.

Internal Address: _____

3-21-02

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

03/14/02 (Vijn; Dao)

Execution Date: 03/20/02 (Brothers; Keener; Braden)

Street Address: 10200 Bellaire Boulevard

City: Houston State: TX Zip: 77072

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 03/14/02

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

 Name: Craig W. Roddy
 Internal Address: Halliburton Energy Services

Street Address: 2600 South Second Street

City: Duncan State: OK Zip: 73536-0440

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

08-0300

DO NOT USE THIS SPACE

9. Signature.

Craig W. Roddy

Name of Person Signing

Signature

3-21-02

Date

04/03/2002 DBYRNE 00000214 080300 10103449

Total number of pages including cover sheet, attachments, and documents: 4

01 FC:581

40.00 CH

 Mail documents to be recorded with required cover sheet information to:
 Commissioner of Patents & Trademarks, Box Assignments
 Washington, D.C. 20231

 U.S. PTO
 10/103449
 03/21/02

ASSIGNMENT

Whereas, I/We, Lance E. Brothers of Grady County, Chickasha, Oklahoma; Krista L. Keener of Stephens County, Duncan, Oklahoma; James A. Braden of Stephens County, Duncan, Oklahoma; Jan Pieter Vijn of Leiderdorp, The Netherlands and Bach Dao of Nieuw Vennepe, The Netherlands, have invented METHODS, WELL CEMENT COMPOSITIONS AND LIGHTWEIGHT ADDITIVES THEREFOR for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application first executed on March 14, 2002, submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 20th day of March, 2002, at Duncan, Stephens County, Oklahoma U.S.A.

Lance E. Brothers
Lance E. Brothers

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Lance E. Brothers and acknowledged the foregoing instrument to be his free act and deed this 20th day of March, 2002.

Seal

Sheila Gibbs
(Notary Public)

My Commission Expires: September 13, 2004

Executed this 20th day of March, 2002, at Duncan, Stephens County, Oklahoma U.S.A.

Krista L. Keener
Krista L. Keener

State of Oklahoma)
) ss
County of Stephens)

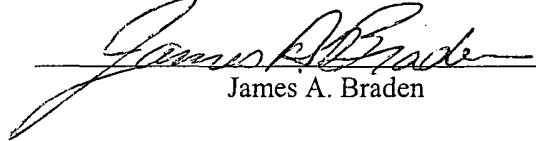
Before me personally appeared said Krista L. Keener and acknowledged the foregoing instrument to be his free act and deed this 20th day of March, 2002.

Seal

Sheila Gibbs
(Notary Public)

My Commission Expires: September 13, 2004

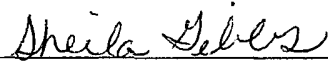
Executed this 20th day of March, 2002, at Duncan, Stephens County, Oklahoma U.S.A.


James A. Braden

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said James A. Braden and acknowledged the foregoing instrument to be his free act and deed this 20th day of March, 2002.

Seal


(Notary Public)

My Commission Expires: September 13, 2004

Executed this _____ day of March, 2002, at _____.

Jan Pieter Vijn

Before me personally appeared said Jan Pieter Vijn and acknowledged the foregoing instrument to be his free act and deed this _____ day of March, 2002.

Seal

(Notary Public)

Executed this _____ day of March, 2002, at _____.

Bach Dao

Before me personally appeared said Bach Dao and acknowledged the foregoing instrument to be his free act and deed this _____ day of March, 2002.

Seal

(Notary Public)

ASSIGNMENT

Whereas, I/We, Lance E. Brothers of Grady County, Chickasha, Oklahoma; Krista L. Keener of Stephens County, Duncan, Oklahoma; James A. Braden of Stephens County, Duncan, Oklahoma; Jan Pieter Vijn of Leiderdorp, The Netherlands and Bach Dao of Nieuw Vennep, The Netherlands, have invented METHODS, WELL CEMENT COMPOSITIONS AND LIGHTWEIGHT ADDITIVES THEREFOR for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application first executed on March 14, 2002, submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this _____ day of March, 2002, at Duncan, Stephens County, Oklahoma U.S.A.

Lance E. Brothers

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Lance E. Brothers and acknowledged the foregoing instrument to be his free act and deed this _____ day of March, 2002.

Seal

(Notary Public)

My Commission Expires: September 13, 2004

Executed this _____ day of March, 2002, at Duncan, Stephens County, Oklahoma U.S.A.

Krista L. Keener

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Krista L. Keener and acknowledged the foregoing instrument to be his free act and deed this _____ day of March, 2002.

Seal

(Notary Public)

My Commission Expires: September 13, 2004

Executed this _____ day of March, 2002, at Duncan, Stephens County, Oklahoma U.S.A.

James A. Braden

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said James A. Braden and acknowledged the foregoing instrument to be his free act and deed this _____ day of March, 2002.

Seal

(Notary Public)

My Commission Expires: September 13, 2004

Executed this 14th day of March, 2002, at Leiderdorp

Jan Pieter Vijn

Before me personally appeared said Jan Pieter Vijn and acknowledged the foregoing instrument to be his free act and deed this 14th day of March, 2002.



mr F.C. Bakker
(Notary Public)

Executed this 14th day of March, 2002, at Leiderdorp

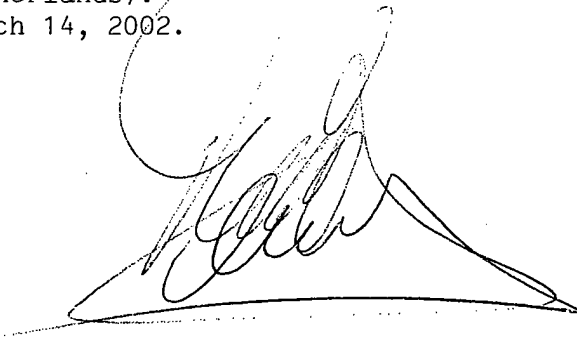
Bach Dao

Before me personally appeared said Bach Dao and acknowledged the foregoing instrument to be his free act and deed this 14th day of March, 2002.



mr F.C. Bakker
(Notary Public)

Seen for legalization of the signature of mr Jan Pieter Vijn
and mr Bach Dao,
by me mr Frederikus Cornelis Bakker, notaris, practising at
Leiderdorp (Netherlands).
Leiderdorp, March 14, 2002.

A handwritten signature in dark ink, appearing to be 'F. C. Bakker', written in a cursive style.



RECEIVED

JUN 04 2002

MAY 29, 2002

PTAS

CRAIG W. RODDY Commissioner for Trademarks
Arlington, VA 22202-3513
www.uspto.gov

HALLIBURTON ENERGY SERVICES
CRAIG W. RODDY
2600 SOUTH SECOND STREET
DUNCAN, OK 73536-0440



102044358A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/21/2002

REEL/FRAME: 012740/0848
NUMBER OF PAGES: 15

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
BROTHER, LANCE E.

DOC DATE: 03/20/2002

ASSIGNOR:
KEENER, KRISTA L.

DOC DATE: 03/20/2002

ASSIGNOR:
BRADEN, JAMES A.

DOC DATE: 03/20/2002

ASSIGNOR:
VIJN, JAN PIETER

DOC DATE: 03/14/2002

ASSIGNOR:
DAO, BACH

DOC DATE: 03/14/2002

ASSIGNEE:
HALLIBURTON ENERGY SERVICES, INC.
10200 BELLAIRE BOULEVARD
HOUSTON, TEXAS 77072

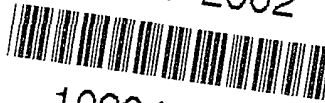
012740/0848 PAGE 2

SERIAL NUMBER: 10103449
PATENT NUMBER:

FILING DATE: 03/21/2002
ISSUE DATE:

JEFFREY OLSEN, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

04-04-2002

Form PTO-1595
(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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RECORDATION 102044358
PATENTS ONLYU.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Lance E. Brothers Jan Pieter Vijn
Krista L. Keener Bach Dao
James A. BradenAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

03/14/02 (Vijn; Dao)

Execution Date: 03/20/02 (Brothers; Keener; Braden)

2. Name and address of receiving party(ies)

Name: Halliburton Energy Services, Inc.

Internal Address: _____

3-21-02

Street Address: 10200 Bellaire Boulevard

City: Houston State: TX Zip: 77072

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 03/14/02

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Craig W. Roddy

Internal Address: Halliburton Energy Services

Street Address: 2600 South Second Street

City: Duncan State: OK Zip: 73536-0440

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

08-0300

DO NOT USE THIS SPACE

9. Signature.

Craig W. Roddy

Name of Person Signing

Signature

3-21-02

Date

04/03/2002 DBYRNE

00000214 080300

10103449

Total number of pages including cover sheet, attachments, and documents: 4

01 FC:581

40.00 CH

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231
 JCS58 U.S. PTO
 10/103449
 03/21/02

ASSIGNMENT

Whereas, I/We, Lance E. Brothers of Grady County, Chickasha, Oklahoma; Krista L. Keener of Stephens County, Duncan, Oklahoma; James A. Braden of Stephens County, Duncan, Oklahoma; Jan Pieter Vijn of Leiderdorp, The Netherlands and Bach Dao of Nieuw Vennepe, The Netherlands, have invented METHODS, WELL CEMENT COMPOSITIONS AND LIGHTWEIGHT ADDITIVES THEREFOR for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application first executed on March 14, 2002, submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 20th day of March, 2002, at Duncan, Stephens County, Oklahoma U.S.A.

Lance E. Brothers
Lance E. Brothers

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Lance E. Brothers and acknowledged the foregoing instrument to be his free act and deed this 20th day of March, 2002.

Seal

Sheila Tibbs
(Notary Public)

My Commission Expires: September 13, 2004

Executed this 20th day of March, 2002, at Duncan, Stephens County, Oklahoma U.S.A.

Krista L. Keener
Krista L. Keener

State of Oklahoma)
) ss
County of Stephens)

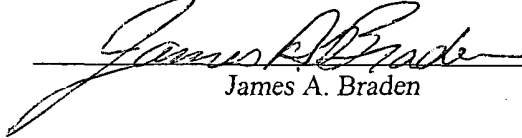
Before me personally appeared said Krista L. Keener and acknowledged the foregoing instrument to be his free act and deed this 20th day of March, 2002.

Seal

Sheila Tibbs
(Notary Public)

My Commission Expires: September 13, 2004


Executed this 20th day of March, 2002, at Duncan, Stephens County, Oklahoma U.S.A.


James A. Braden

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said James A. Braden and acknowledged the foregoing instrument to be his free act and deed this 20th day of March, 2002.

Seal


(Notary Public)

My Commission Expires: September 13, 2004

Executed this _____ day of March, 2002, at _____.

Jan Pieter Vijn

Before me personally appeared said Jan Pieter Vijn and acknowledged the foregoing instrument to be his free act and deed this _____ day of March, 2002.

Seal

(Notary Public)

Executed this _____ day of March, 2002, at _____.

Bach Dao

Before me personally appeared said Bach Dao and acknowledged the foregoing instrument to be his free act and deed this _____ day of March, 2002.

Seal

(Notary Public)

ASSIGNMENT

Whereas, I/We, Lance E. Brothers of Grady County, Chickasha, Oklahoma; Krista L. Keener of Stephens County, Duncan, Oklahoma; James A. Braden of Stephens County, Duncan, Oklahoma; Jan Pieter Vijn of Leiderdorp, The Netherlands and Bach Dao of Nieuw Vennep, The Netherlands, have invented METHODS, WELL CEMENT COMPOSITIONS AND LIGHTWEIGHT ADDITIVES THEREFOR for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application first executed on March 14, 2002, submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this _____ day of March, 2002, at Duncan, Stephens County, Oklahoma U.S.A.

Lance E. Brothers

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Lance E. Brothers and acknowledged the foregoing instrument to be his free act and deed this _____ day of March, 2002.

Seal

(Notary Public)

My Commission Expires: September 13, 2004

Executed this _____ day of March, 2002, at Duncan, Stephens County, Oklahoma U.S.A.

Krista L. Keener

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Krista L. Keener and acknowledged the foregoing instrument to be his free act and deed this _____ day of March, 2002.

Seal

(Notary Public)

My Commission Expires: September 13, 2004

Executed this _____ day of March, 2002, at Duncan, Stephens County, Oklahoma U.S.A.

James A. Braden

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said James A. Braden and acknowledged the foregoing instrument to be his free act and deed this _____ day of March, 2002.

Seal

(Notary Public)

My Commission Expires: September 13, 2004

Executed this 14th day of March, 2002, at Leiderdorp

Jan Pieter Vijn

Before me personally appeared said Jan Pieter Vijn and acknowledged the foregoing instrument to be his free act and deed this 14th day of March, 2002.



mr F.C. Bakker
(Notary Public)

Executed this 14th day of March, 2002, at Leiderdorp

Bach Dao

Before me personally appeared said Bach Dao and acknowledged the foregoing instrument to be his free act and deed this 14th day of March, 2002.



mr F.C. Bakker
(Notary Public)